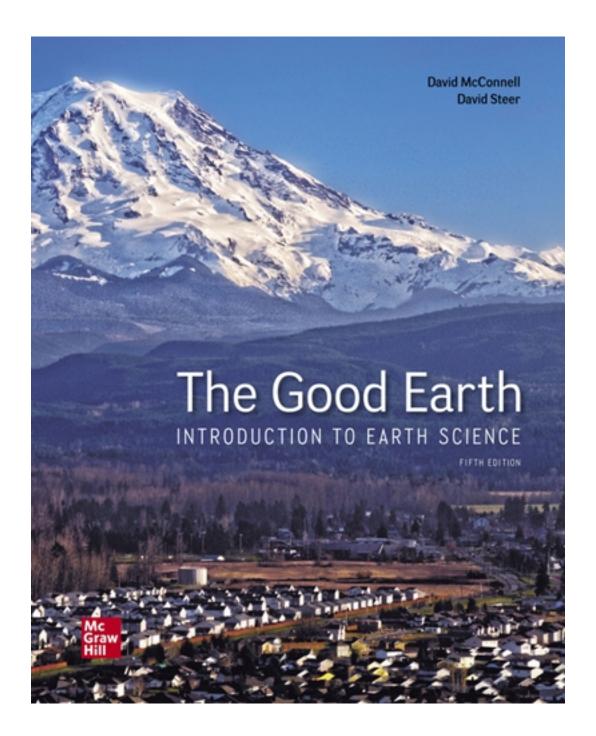
Test Bank for Good Earth Introduction to Earth Science 5th Edition by McConnell

CLICK HERE TO ACCESS COMPLETE Test Bank



Test Bank

ANSWERS ARE LOCATED IN THE SECOND PART OF THIS DOCUMENT

TRUE/FALSE - Write 'T' if the statement is true and 'F' if the statement is false.				
1)		tific results are unpredictable and are mainly determine	d by the personal views of	
the so	cientists	•		
			1)	
			1)	
	0	true		
	0	false		
	Ü			
Quest	ion Deta	ils		
Section	on: 01.03	Doing Science		
_		teristics of Science: Good and Bad		
	-	Keyboard Navigation		
Bloon	n's : Leve	1 1. Remember		
Grada	ble : auto	matic		
Chapt	er : 01 In	troduction to Earth Science		
2)	Once	a scientific explanation has been established it never n	eeds to be changed.	
			_	
			2)	
	0	true		
	o	false		
Quest	ion Deta	ils		
		Doing Science		
		teristics of Science: Good and Bad		
_		Keyboard Navigation		
	-	1 1. Remember		
	ble : auto			
		troduction to Earth Science		
_F .				
3)	A hy	pothesis is supported by more scientific observation and	d research than a theory.	
,	J	11 / 1111111111111111111111111111111111		
			3)	
	0	true		
	<u> </u>	false		
	(0)	LOINE		

Questio	on Detai	ils									
Section: 01.03 Doing Science Topic: Characteristics of Science: Good and Bad Accessibility: Keyboard Navigation											
						Bloom's: Level 1. Remember					
						le : auto					
Chapter	r : 01 Int	roduction to Earth Science									
4)	Scien	ce provides answers to ethical dilemmas.									
			4)								
	o	true									
	<u></u>	false									
	5										
	on Detai										
_		eristics of Science: Good and Bad Keyboard Navigation									
	-	1. Remember									
	le : auto										
		The Scope of Earth Science									
		roduction to Earth Science									
5)	Theor	ries are developed so that they can not be found to be false.									
C)	111001	nes are developed so that they can not be round to be raise.									
			5)								
	0	true									
	0	false									
Onestic	on Detai	ile									
		Doing Science									
		eristics of Science: Good and Bad									
-		Keyboard Navigation									
Bloom's	s : Level	1. Remember									
	le : auto										
Chapter	r : 01 Int	roduction to Earth Science									
6)	Most	notived horourds such as couth quakes, towards as and hyperican as as he as	ovanta d								
6)	wiost	natural hazards such as earthquakes, tornadoes, and hurricanes can be pr	evenied.								
			6)								

0	true
0	false

Question Details

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

7) Social factors affecting decisions on the environment are more difficult to quantify than physical or chemical factors.

7) _____

- o true
- false

Question Details

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

8) We can adjust to natural hazards.

8)

- true
- false

Question Details

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

9)		Evacuation of a city in advance of a hurricane would be an example of prevention.			
			9)		
	0	true			
	<u>o</u>	false			
Questi	on Detai	ils			
Access	sibility: l	Keyboard Navigation			
		11. Remember			
		Science and Society			
_	-	ll, Chemical, Social and Cultural Aspects of Earth Science			
	ole : auto				
Спари	er: O1 Int	troduction to Earth Science			
10)	Induc	ctive reasoning uses specific observations to reach a general conclusion.			
			10)		
			10)		
	0	true			
	0	false			
	©	laise			
Questi	on Detai	ils			
-		Doing Science			
		eristics of Science: Good and Bad			
Access	sibility: l	Keyboard Navigation			
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Chapte	er : 01 Int	troduction to Earth Science			
MIII	ттрі Б	E CHOICE - Choose the one alternative that best completes the state	mont or		
			incir oi		
		question.	. 1		
11)		e context of science, how would you classify the following statement? Ir			
-		atively high concentrations in 65 million year old rock layers in several	different		
locati	ons on	Earth.			
			11)		
	A) the	eory			

Version 1 4

B) hypothesisC) observation

Λ	-4	. T	- 4 - •1
Oue	stioi	וע ו	etails

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

12) Suppose you measure the flow of water from a drinking fountain 10 times and all your measurements agree very closely to one another, but differ significantly from the accepted flow value. Which of the following statements best describes your empirical data?

12)	
14/	

- A) they are accurate but not precise
- B) they are precise but not accurate
- C) they are not accurate nor precise

Ouestion Details

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

13) During orientation you learn that all classrooms on campus are air conditioned. You decide to bring a sweatshirt to class even on the hottest days. What type of reasoning did you use?

13) _____

- A) inductive
- B) deductive
- C) neither inductive nor deductive—the decision did not involve science

Question	Details

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

14) _____

- A) Science is a large body of factual knowledge.
- B) Science is the process of discovery.
- C) Science is the quest for ultimate truth.

Question Details

Accessibility : Keyboard Navigation Bloom's : Level 1. Remember

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic: The Scope of Earth Science

Chapter: 01 Introduction to Earth Science

15) Which of the following is not a characteristic of scientific explanations?

15) _____

- A) they are tentative
- B) they are able to answer all questions
- C) they are limited by technology
- D) they are based on empirical observations

Section Topic: Accessil Bloom's Gradabl	on Details : 01.03 Doing Science Characteristics of Science: Good and Bad bility: Keyboard Navigation : Level 1. Remember e: automatic : 01 Introduction to Earth Science	
16) conclu	Which method of science reasoning uses specific observations to draw general sions?	16)
	A) inductive B) deductive C) logical	
Section Topic :	on Details : 01.03 Doing Science Characteristics of Science: Good and Bad	
	bility : Keyboard Navigation :: Level 1. Remember	
Gradabl	e : automatic : 01 Introduction to Earth Science	
17) actions	Which process of a scientifically enlightened citizen deals with being aware the son Earth affect us and we affect others?	nat other's
		17)
	A) know	

Version 1 7

B) care C) act

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

18)	Which role of earth	scientists most	directly relates to	forecasting	hurricane ı	oaths

18) _____

- A) finding and sustaining earth resources
- B) protecting the health of the environment
- C) ensuring the future of human life
- D) protecting against natural hazards

Question Details

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic

Chapter: 01 Introduction to Earth Science

19) Which of the following statements does not describe some aspect of scientific investigation?

19) _____

- A) Observing that much of the water along the beach is no longer where it should be.
- B) Reasoning that fair weather conditions do not normally result in rapid drops in ocean levels so something extraordinary is occurring.
 - C) Hypothesizing that the water would likely come back in as fast as it went out.
- D) Concluding that this rising water process had to do with sinking land levels rather than rising water levels.
 - E) All of these choices are correct.

O	uestion	Details
v	acouti	Detuili

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

20) Consider the following statement and choose which response best applies to it.

"Over the last two centuries, there has been a marked decrease in the number of pirates in the world at the same time that global temperatures are rising. Therefore, the lack of pirates must be linked to global warming."

20)		
7111		
////		

- A) This is an example of attacking the scientists doing the research, rather than the science.
 - B) This is an example of flawed cause and effect reasoning.
- C) This is an example of poor statistics, as the population size covers only 200 years of data.
 - D) This is an example of arguing a point on the basis of authority.
 - E) All of these choices are correct.

Question Details

Bloom's: Level 2. Understand Section: 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

21) If you were asked to describe some of the useful things that earth scientists might be involved in, which of the following would not be applicable?

21)				
	0.1	`		
	·,	١.		

- A) Helping the public understand which areas and populations might be susceptible to earthquakes.
 - B) Trying to understand what causes flooding so it can be prevented.
 - C) Trying to predict when natural hazards might occur by using secret methods.
 - D) Trying to predict the weather so farmers might know when to plant crops.
 - E) All of these choices are correct.

Question Details

Bloom's: Level 2. Understand Accessibility: Keyboard Navigation Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

22) In the context of science, how would you classify the following statement? Dinosaurs became extinct because a large asteroid collided with Earth.

22) _____

- A) Theory
- B) Hypothesis
- C) Observation

Question Details

Section: 01.03 Doing Science Accessibility: Keyboard Navigation

Bloom's: Level 5. Evaluate

Topic: Application of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

23) Which component of the earth system relates to the solid earth?

23) _____

A)	Hydrosphere
/	11, GIOSPIICIO

- B) Biosphere
- C) Geosphere
- D) Atmosphere
- E) Exosphere

Question Details

Accessibility : Keyboard Navigation Bloom's : Level 1. Remember

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic : The Scope of Earth Science Chapter : 01 Introduction to Earth Science

24) Which part of the earth system includes plants and animals?

24) _____

- A) Atmosphere
- B) Biosphere
- C) Hydrosphere
- D) Solid earth

Question Details

Accessibility : Keyboard Navigation Bloom's : Level 1. Remember

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic: The Scope of Earth Science

Chapter: 01 Introduction to Earth Science

25) Which part of the earth system includes ice on Antarctica?

25) _____

Version 1

A) Atmosphere	е
---------------------------------	---

- B) Biosphere
- C) Hydrosphere
- D) Solid earth

Question Details

Accessibility : Keyboard Navigation Bloom's : Level 1. Remember

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic: The Scope of Earth Science

Chapter: 01 Introduction to Earth Science

26) In what context (why) was the 2001 Hutchinson, Kansas gas leak explosion discussed in Chapter 1?

26) _____

- A) To illustrate the need for more safety measures at gas storage facilities.
- B) To illustrate the process of science in an actual situation.
- C) To contrast the characteristics of "good" and "bad" science.

Question Details

Section : 01.03 Doing Science Accessibility : Keyboard Navigation

Bloom's: Level 5. Evaluate

Topic: Application of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

27) What distinguishes science from non-science?

27) _____

Α`	Science	is	hased	οn	empirical	observati	ons
$\boldsymbol{\Lambda}$	SCIETICE.	19	vascu	OII	cilipilicai	oosei van	ons.

- B) Science is based on unchanging facts.
- C) Science is based solely on experiments.

Ou	estion	Detail	S

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

28) A hypothesis can be improved or rejected based on which of the following?

28) _____

- A) new data
- B) new observations
- C) experiments
- D) Any of the choices are correct.

Question Details

Section: 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember

Gradable: automatic

Chapter: 01 Introduction to Earth Science

29) Which of the following is a characteristic of empirical observations?

29) _____

Version 1

A)	They	can	be	measured	by	others.
----	------	-----	----	----------	----	---------

- B) They are observations that will not change.
- C) They represent ethical interpretations.

Question	Details
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Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

30)	Why was	s the mid	-continent	earthquake story	y discussed in	n Chapter	1?
-------------	---------	-----------	------------	------------------	----------------	-----------	----

30) _____

- A) It illustrated characteristics of bad science.
- B) It illustrated the characteristics of good science.
- C) It illustrated the characteristics of the limitations of science.

Question Details

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable: automatic

Chapter: 01 Introduction to Earth Science

31) Why might the era we live in today one day be called the "Anthropocene"?

31) _____

- A) Because humans are the dominant life form on Earth at present.
- B) Because humans population is increasing rapidly.
- C) Because humans are causing significant changes to the planet.

	o	uestion	Details
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Bloom's : Level 2. Understand Accessibility : Keyboard Navigation Section : 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

32) Which of the following scenarios is an example of inductive reasoning?

32))

- A) Ben went fishingand caught 12 smallmouth bass with minnows, and only 2 with worms. Benconcludes that most fish prefer eating minnows instead of worms.
- B) Ben read a magazine article that said most fish prefer to eat minnowsinstead of worms. Ben concludes that smallmouth bass probably also prefereating minnows instead of worms.

Question Details

Section: 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

33) Which of the following scenarios is an example of deductive reasoning?

3	3	1			

- A) This year the RiverCity Roosters football team has won five home games but zero away games. Therefore, the River City Roosters cannot win away games.
- B) The River CityRoosters never win away games. Today they are playing an away game, so theywill lose.

Question Details

Section: 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Accessibility: Keyboard Navigation

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

34) Which of the following natural hazards are we most likely to try to prevent?

34)

- A) Floods
- B) Tornados
- C) Hurricanes
- D) Volcanic Eruptions

Question Details

Accessibility: Keyboard Navigation Bloom's: Level 1. Remember Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

SECTION BREAK. Answer all the part questions.

35) Pluto was discovered in 1930, becoming the 9th planet in the solar system. As telescopes improved, other Sun-orbiting objects were discovered. Some of those were even larger than Pluto. By 2005, it was becoming apparent that many more objects would soon be discovered and that the number of planets in the Solar System could swell to as many as 50. After much debate, scientists in the International Astronomical Union (IAU) concluded that Pluto and the other similar celestial bodies orbiting the Sun should be classified as dwarf planets. Since a planet must clear the space surrounding its orbit, our Solar system now has 8 planets.

Question Details

Topic: Characteristics of Science: Good and Bad

35.1)	Why weren't the	other Pluto-like	objects discov	ered earlier?

35 1)	
55.1)	

- A) Scientific explanations are tentative.
- B) Scientific hypotheses are falsifiable.
- C) Scientific explanations make predictions.
- D) Science is limited by technology.

Question Details

Section: 01.03 Doing Science Topic: Application of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Chapter: 01 Introduction to Earth Science

35.2) Pluto still exists, so how do you explain that we now officially only have 8 planets in our solar system?

35.2) _____

- A) Scientific explanations are tentative.
- B) Science is based on empirical observations.
- C) Scientific explanations make predictions.
- D) Science is limited by technology.

Question Details

Section: 01.03 Doing Science Topic: Application of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Chapter: 01 Introduction to Earth Science

35.3) Why are scientists expected to publish the data they use to make discoveries?

35.3)	
22.2,	

- A) Scientific explanations are tentative.
- B) Science is based on empirical observations.
- C) Scientific explanations make predictions.
- D) Science is limited by technology.

Question Details

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Gradable: automatic

Chapter: 01 Introduction to Earth Science

36) A group of concerned citizens was worried that their local water supply might be contaminated with naturally occurring arsenic. They decided to purchase a home arsenic monitoring kit and tested well water in their local area. After analyzing the data (shown below), the citizens wrote a letter to the editor of a local newspaper arguing that their data proved that the water supply is contaminated. They demanded immediate government action to address the problem. The local water board again tested the wells using their official water testing instruments and found average concentrations of 8.1 +/- 0.2 micrograms per liter. Assume the water board's reported measurements are the accepted value. The maximum permitted level of arsenic in water supplies is 10 micro-grams per liter.

Well	Sample 1	Sample 2	Sample 3	Sample 4	Average
1	12.0	14.0	7.0	8.0	10.3 +/- 3.3
2	16.0	18.0	10.0	14.0	14.5 +/- 3.4
3	3.0	23.0	5.0	19.0	12.5 +/- 10.0
4	7.0	7.0	21.0	21.0	14 +/- 8.1
Concentrations in micro-grams per liter Average 12.8 +/- 6.4					

Question Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

36.1) Which of the earth-system scientist's roles is best illustrated by this paragraph?

36.1) _____

A)	Alerting	the	public	of	natural	hazards

- B) Use of earth resources
- C) Health of the environment
- D) Informing society

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

36.2) Which earth system interaction is illustrated in this passage?

26 21	
36.2)	

- A) Hydrosphere toatmosphere
- B) Hydrosphere tobiosphere
- C) Geosphere tohydrosphere
- D) Geosphere toatmosphere

Question Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Section: 01.02 The Scope of Earth Science Chapter: 01 Introduction to Earth Science

36.3) What is the most reasonable action for local government to officials to take in this situation?

Version 1

- A) Ignore the datacollected by the concerned citizens.
- B) Test the watersamples using both testing methods.
- C) Require the waterboard to test a third set of well samples.
- D) Require the waterboard to create a plan to reduce arsenic levels in the well water.

Question Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Bloom's : Level 5. Evaluate

Gradable : automatic

Section: 01.02 The Scope of Earth Science Chapter: 01 Introduction to Earth Science

36.4) It is later revealed that several of the citizens' samples from Well 2 were likely contaminated prior to testing, but the citizens decided to include these samples in their final data set anyway. Which characteristic of bad science does this illustrate?

36.4) _____

- A) Attacking thescientists, not the science.
- B) Confusing cause and effect.
- C) Making use of bad statistics.
- D) Creating an argument based upon authority.

Question Details

Section: 01.03 Doing Science

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Chapter: 01 Introduction to Earth Science

37) Emission testing is required by federal law in areas that have had problems meeting health-based air quality standards. Such areas typically include industrialized urban areas and large cities. Supporters of this practice argue that all citizens benefit because vehicles with malfunctioning pollution control systems are identified. They also cite government data showing average failure rates of 10%. Critics of the testing argue that, of those vehicles that fail, 90% are vehicles 5 or more years old. A law has been placed on the ballot to save citizens money by no longer requiring vehicles less than 5 years old be tested unless they are obviously malfunctioning.

Ouestion	Details
Oucsuon	Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

37.1)	Suppose the law passed.	What is likely to ha	appen to air q	uality in those	areas
where te	esting is required?				

37.1) _____

- A) Air quality should improve a lot.
- B) Air quality should decline a lot.
- C) There should be little change to air quality.

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Bloom's : Level 5. Evaluate Gradable : automatic

Chapter: 01 Introduction to Earth Science

37.2) Complete the following sentence: The new emissions testing law is based on reasoning.

37.2) _____

A) deductive

B) inductive

Question Details

Bloom's: Level 2. Understand Section: 01.03 Doing Science Topic: Application of Earth Science

Gradable: automatic

Chapter: 01 Introduction to Earth Science

38) The U.S. government Strategic Plan for the Climate Change Science Program (CCSP) has five major goals related to the role of earth scientists in society. 1) Improve knowledge of the Earth's past and present climate and environment, including its natural variability, and improve understanding of the causes of observed variability and change. 2) Improve quantification of the forces bringing about changes in the Earth's climate and related systems. 3) Reduce uncertainty in projections of how the Earth's climate and related systems may change in the future. 4) Understand the sensitivity and adaptability of different natural and managed ecosystems and human systems to climate and related global changes. 5) Explore the uses and identify the limits of evolving knowledge to manage risks and opportunities related to climate variability and change.

Question Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

38.1) What hypothesis underlies these goals?

38.1) _____

- A) Climate has changed in the past.
- B) Climate will change in the future.
- C) Climate will stay about the same.

Question Details

Section: 01.03 Doing Science Topic: Application of Earth Science

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

38.2)	How are these	goals co	nsistent	with the	charac	teristics	of :	good	science	?
-------	---------------	----------	----------	----------	--------	-----------	------	------	---------	---

- A) They rely on scientific opinions.
- B) They rely on accepted theories.
- C) They rely on empirical evidence.

Question Details

Bloom's : Level 2. Understand Section : 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Gradable: automatic

Chapter: 01 Introduction to Earth Science

38.3) Which of the earth-system scientist's roles is best illustrated by goal number 3?

38.3)	

- A) Alerting public of natural hazards
- B) Use of earth resources
- C) Ensuring the future of human life
- D) Informing society

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

39) Suppose an electric-generating power plant is about to be built near your house. The local government has not decided whether to allow coal, nuclear, or oil as fuel for the plant (natural gas is not an option). Some groups argue coal is the best choice because there is a 200-year supply and using coal reduces our dependence on foreign oil. Critics argue that burning coal produces three times more global-warming gasses than oil. Coal also produces more dust and expels more acid-rain-causing gases than oil. Others argue that nuclear-generated power produces no greenhouse gases and no other atmospheric pollution. Critics argue that there is presently no long-term location to store the radioactive waste that will be generated and question the safety of nuclear power. Over the life of the plant, nuclear is the least expensive option, followed by coal and then oil.

Question Details

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Chapter: 01 Introduction to Earth Science

39.1) Place the fuel options from this paragraph in order from highest impact on global warming to least impact.

39.1	١
37.1	,

- A) Nuclear, oil, coal
- B) Oil, coal, nuclear
- C) Coal, nuclear, oil
- D) Coal, oil, nuclear

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Chapter: 01 Introduction to Earth Science

39.2) Which earth system interaction is illustrated by this passage?

39	2)		
74	7.1		

- A) Geosphere to atmosphere
- B) Atmosphere to geosphere
- C) Geosphere to hydrosphere
- D) Hydrosphere to geosphere

Question Details

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic: The Scope of Earth Science

Bloom's: Level 4. Analyze

Chapter: 01 Introduction to Earth Science

39.3) Which of the earth-system scientist's roles is best illustrated by this paragraph?

39.3) _____

- A) Alerting public of natural hazards
- B) Use of earth resources
- C) Ensuring the future of human life
- D) Informing society

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

40) Many people think that water draining from a sink rotates in a particular direction due to something called the Coriolis effect, which is generated by the rotation of the earth. Furthermore, such people frequently argue that the direction of water flow is reversed in the opposite hemisphere. In reality, the Coriolis effect in that situation is too small to affect the direction water drains from a sink or toilet. The drainage direction is instead related to the shape of the sink bowl or the direction water flushes into a toilet.

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

40.1) Which characteristic of "bad science" related to draining water is most prevalent in this passage? Which characteristic of "bad science" related to draining water is most prevalent in this passage?

40.1)	
10.1	

- A) Attack on thescientist, not the science.
- B) Arguing fromauthority.
- C) Confusing cause and effect.
- D) The use of badstatistics.

Question Details

Section: 01.03 Doing Science

Topic: Characteristics of Science: Good and Bad

Bloom's : Level 5. Evaluate

Gradable : automatic

Chapter: 01 Introduction to Earth Science

40.2) Which statement best describes science?

40.2)

- A) Science is a large body of factual knowledge.
- B) Science is the process of discovery.
- C) Science is the quest for ultimate truth.

Question Details

Bloom's: Level 1. Remember

Gradable: automatic

Section: 01.02 The Scope of Earth Science

Topic: The Scope of Earth Science

Chapter: 01 Introduction to Earth Science

41) In 2005 the United States Congress mandated that NASA find 90 percent of large Near Earth asteroids (NEAs)-those that have the potential to impact Earth-by the year 2020. This mandate was created in response to recent scientific data indicating large impact events were common in Earth's geologic past and therefore will likely occur again in the future. Many new NEAs have been discovered as a result of NASA's efforts and research is under way to find ways to stop such impact events from occurring.

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Topic: Characteristics of Science: Good and Bad

41.1)	Which of the earth s	ystem scientist's roles is	s best illustrated in this	paragraph?
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41.1) _____

- A) Alerting public of natural hazards
- B) Use of earthresources
- C) Ensuring the future of human life
- D) Informingsociety

Question Details

Section: 01.04 Science and Society

Topic: Physical, Chemical, Social and Cultural Aspects of Earth Science

Gradable : automatic Bloom's : Level 4. Analyze

Chapter: 01 Introduction to Earth Science

41.2) In the context of the above paragraph, the hypothesis that another large asteroid impact will occur in the future is an example of _____.

41.2) _____

- A) bad science
- B) deductivereasoning
- C) inductivereasoning

Question Details

Section: 01.03 Doing Science Topic: Application of Earth Science

Gradable : automatic Bloom's : Level 3. Apply

Chapter: 01 Introduction to Earth Science

41.3) The above paragraph suggests that, unlike other natural hazards, asteroid impacts

41.3) _____

- A) may some daybe prevented
- B) are intensively studied by scientists
- C) are not likely tooccur in the near future
- D) pose little threatto humans

Question Details

Topic: Characteristics of Science: Good and Bad

Section: 01.04 Science and Society

Bloom's : Level 5. Evaluate

Gradable : automatic

Chapter: 01 Introduction to Earth Science

Answer Key

Test name: CH01

- 1) FALSE
- 2) FALSE
- 3) FALSE
- 4) FALSE
- 5) FALSE
- 6) FALSE
- 7) TRUE
- 8) TRUE
- 9) FALSE
- **10) TRUE**
- 11) C
- 12) B
- 13) B
- 14) B
- 15) B
- 16) A
- 17) B
- 18) D
- 19) E
- 20) B
- 21) C
- 22) B
- 23) C
- 24) B
- 25) C

- 26) B
- 27) A
- 28) D
- 29) A
- 30) A
- 31) C
- 32) A
- 33) B
- 34) A
- 35) Section Break
 - 35.1) D
 - 35.2) A
 - 35.3) B
- 36) Section Break
 - 36.1) D
 - 36.2) C
 - 36.3) B
 - 36.4) C
- 37) Section Break
 - 37.1) C
 - 37.2) B
- 38) Section Break
 - 38.1) B
 - 38.2) C
 - 38.3) D
- 39) Section Break
 - 39.1) D
 - 39.2) A
 - 39.3) B
- 40) Section Break

- 40.1) C
- 40.2) B
- 41) Section Break
 - 41.1) C
 - 41.2) C
 - 41.3) A